

Certificate of Analysis

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Product Name: Kisspeptin 234

Catalog No.: 3881

Batch No.: 8

CAS Number: 1145998-81-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₃H₇₈N₁₈O₁₃
Batch Molecular Weight: 1295.42
Physical Appearance: White lyophilised solid
Net Peptide Content: 87%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Ac-D-Ala-Asn-Trp-Asn-Gly-Phe-Gly-D-Trp-Arg-Phe-NH₂

2. ANALYTICAL DATA

HPLC: Shows 99% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala		1.00	0.96	Lys			
Arg		1.00	1.03	Met			
Asx		2.00	1.59	Phe	2.00	1.98	
Cys				Pro			
Glx				Ser			
Gly		2.00	2.03	Thr			
His				Trp	2.00	Detected	
Ile				Tyr			
Leu				Val			

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: Kisspeptin 234

Catalog No.: 3881

Batch No.: 8

CAS Number: 1145998-81-7

Description:

kisspeptin receptor (KISS1, GPR54) antagonist; kisspeptin-10 (Cat. No. 2570) analog. Inhibits kisspeptin-10 stimulation of inositol phosphate (IP) (IC₅₀ = 7 nM) and release of gonadotrophin-releasing hormone (GnRH).

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Peptide Sequence:

Ac-D-Ala-Asn-Trp-Asn-Gly-Phe-Gly-D-Trp-
Arg-Phe-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Net Peptide Content: 87% (Remaining weight made up of counterions and residual water).

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

Licensing Information:

Sold under license

References:

Roseweir *et al* (2009) Discovery of potent kisspeptin antagonists delineate physiological mechanisms of gonadotrophin regulation. *J.Neurosci.* **29** 3920. PMID: 19321788.

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